



JFW

CASE LA0108 NP

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Lisa Swidra  
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*Lisa Swidra*  
Signature

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5/18/04  
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

WASHBURN ET AL.

APPLICATION NO: 10/764,118

FILED: JANUARY 23, 2004

FOR: CYCLOALKYL CONTAINING ANILIDE LIGANDS FOR THE  
THYROID RECEPTOR

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Bristol-Myers Squibb Company  
Patent Department  
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Date:

May 18, 2004

Respectfully submitted,



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FORM PTO-1449  
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.  
LA0108 NP  
APPLICATION NO.  
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(Use several sheets if necessary)

## U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		U.S. APPLICATION DOCUMENT	DATE OF PUBLICATION	NAME	CLASS	SUBCLASS	FILING DATE
	AA	2002/0111315	8/15/02	Washburn et al.			

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AB	3,239,345	3/8/66	Hodge et al.			
	AC	3,983,140	9/28/76	Endo et al.			
	AD	4,027,009	5/31/77	Grier et al.			
	AE	4,036,979	7/19/77	Asato			
	AF	4,231,938	11/4/80	Monaghan et al.			
	AG	4,346,227	8/24/82	Terahara et al.			
	AH	4,379,785	4/12/83	Weyer et al.			
	AI	4,411,890	10/25/83	Momany			
	AJ	4,448,784	5/15/84	Glamkowski et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
	AK	EP 0 142 146	8/31/88	EP			<input type="checkbox"/>	<input type="checkbox"/>
	AL	EP 0 221 025	5/6/87	EP			<input type="checkbox"/>	<input type="checkbox"/>
	AM	EP 0 598 359	6/14/00	EP			<input type="checkbox"/>	<input type="checkbox"/>
	AN	EP 0 684 254	3/24/99	EP			<input type="checkbox"/>	<input type="checkbox"/>
	AO	EP 0 773 226	1/13/99	EP			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AP	Ashworth, D.M. et al., "2-Cyanopyrrolidides as Potent, Stable Inhibitors of Dipeptidyl Peptidase IV", Bioorganic & Medicinal Chemistry Letters, Vol. 6, No. 10, pp. 1163-1166 (1996)
	AQ	Ashworth, D.M. et al., "4-Cyanothiazolidides as Very Potent, Stable Inhibitors of Dipeptidyl Peptidase IV", Bioorganic & Medicinal Chemistry Letters, Vol. 6, No. 22, pp. 2745-2748 (1996)
	AR	Biller, S.A. et al., "Isoprenoid (Phosphinylmethyl)phosphonates as Inhibitors of Squalene Synthetase", Journal of Medicinal Chemistry, Vol. 31, No. 10, pp. 1869-1871 (1988)

EXAMINER

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FORM PTO-1449  
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PATENT AND TRADEMARK OFFICE**INFORMATION DISCLOSURE CITATION**

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	2AA	4,450,171	5/22/84	Hoffman et al.			
	2AB	4,499,289	2/12/85	Baran et al.			
	2AC	4,572,912	2/25/86	Yoshioka et al.			
	2AD	4,613,610	9/23/86	Wareing			
	2AE	4,639,436	1/27/87	Junge et al.			
	2AF	4,647,576	3/3/87	Hoefle et al.			
	2AG	4,681,893	7/21/87	Roth			
	2AH	4,686,237	8/11/87	Anderson			
	2AI	4,759,923	7/26/88	Buntin et al.			
	2AJ	4,871,721	10/3/89	Biller			
	2AK	4,904,769	2/27/90	Rauenbusch			
	2AL	4,924,024	5/8/90	Biller			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	2AM	EP 0 850 948	4/24/02	EP			<input type="checkbox"/>	<input type="checkbox"/>
	2AN	EP 1 297 833	4/2/03	EP			<input type="checkbox"/>	<input type="checkbox"/>
	2AO	2 596 393	10/2/87	FR			<input type="checkbox"/>	<input type="checkbox"/>
	2AP	JP 8-27006	1/30/96	JP (with English abstract)			<input type="checkbox"/>	<input type="checkbox"/>
	2AQ	JP 9-124684	5/13/97	JP (with English abstract)			<input type="checkbox"/>	<input type="checkbox"/>

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

	2AR	Biller, S.A. et al., "Squalene Synthase Inhibitors", Current Pharmaceutical Design, Vol. 2, No. 1, pp. 1-40 (1996)
	2AS	Bundgaard, H., Chapter 5: "Design and Application of Prodrugs", A Textbook of Drug Design and Development, Harwood Academic Publishers, publ., Krogsgaard-Larsen, P. et al., eds., pp. 113-191 (1991)
	2AT	Bundgaard, H., ed., Design of Prodrugs, Elsevier Science Publishers B.V., publ. (1985) (table of contents)

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	3AA	5,006,530	4/9/91	Angerbauer et al.			
	3AB	5,011,930	4/30/91	Fujikawa et al.			
	3AC	5,177,080	1/5/93	Angerbauer et al.			
	3AD	5,260,440	11/9/93	Hirai et al.			
	3AE	5,273,995	12/28/93	Roth			
	3AF	5,346,701	9/13/94	Heiber et al.			
	3AG	5,354,772	10/11/94	Kathawala			
	3AH	5,385,929	1/31/95	Bjorge et al.			
	3AI	5,401,772	3/28/95	Yokoyama et al.			
	3AJ	5,488,064	1/30/96	Sher			
	3AK	5,491,134	2/13/96	Sher et al.			
	3AL	5,506,219	4/9/96	Robl			

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		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
	3AM	JP 9-124685	5/13/97	JP (with English abstract)			<input type="checkbox"/>	<input type="checkbox"/>
	3AN	JP 9-188625	7/22/97	JP (with English abstract)			<input type="checkbox"/>	<input type="checkbox"/>
	3AO	JP 10-245391	9/14/98	JP			<input type="checkbox"/>	<input type="checkbox"/>
	3AP	GB 2 205 837	12/21/88	UK			<input type="checkbox"/>	<input type="checkbox"/>
	3AQ	WO 86/03488	6/19/86	PCT			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	3AR	Capson, T.L., "Synthesis and Evaluation of Ammonium Analogs of Carbocationic Intermediates in Squalene Biosynthesis", dissertation, Department of Medicinal Chemistry, University of Utah, pp. iv-v, Table of Contents, 16-17, 40-43, 48-51, Summary (June 1987)
	3AS	Chakrabarty, S.K., Chapter V: "Alkaline Hypohalite Oxidations", Oxidation in Organic Chemistry, Part C, Academic Press, Inc., publ., Trahanovsky, W.S., ed., pp. 343-370 (1978)
	3AT	Chan, D.M.T. et al., "New N- and O-Arylations with Phenylboronic Acids and Cupric Acetate", Tetrahedron Letters, Vol. 39, pp. 2933-2936 (1998)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4AA	5,541,204	7/30/96	Sher et al.			
	4AB	5,594,016	1/14/97	Ueno et al.			
	4AC	5,595,872	1/21/97	Wetterau, II et al.			
	4AD	5,612,359	3/18/97	Murugesan			
	4AE	5,614,492	3/25/97	Habener			
	4AF	5,631,224	5/20/97	Efendic et al.			
	4AG	5,686,104	11/11/97	Mills et al.			
	4AH	5,691,322	11/25/97	Robl			
	4AI	5,712,279	1/27/98	Biller et al.			
	4AJ	5,712,396	1/27/98	Magnin et al.			
	4AK	5,739,135	4/14/98	Biller et al.			
	4AL	5,753,675	5/19/98	Wattanasin			

**FOREIGN PATENT DOCUMENTS**

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	4AM	WO 86/07054	12/4/86	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AN	WO 89/07110	8/10/89	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AO	WO 89/07111	8/10/89	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AP	WO 93/04081	3/4/93	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AQ	WO 96/38144	12/5/96	PCT			<input type="checkbox"/>	<input type="checkbox"/>

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

	4AR	Chiellini, G. et al., "A high-affinity subtype-selective agonist ligand for the thyroid hormone receptor", Chemistry & Biology, Vol. 5, No. 6, pp. 299-306 (1998)
	4AS	Corey, E.J. et al., "Application of Unreactive Analogs of Terpenoid Pyrophosphates to Studies of Multistep Biosynthesis. Demonstration That 'Presqualene Pyrophosphate' Is an Essential Intermediate on the Path to Squalene", J. Am. Chem. Soc., Vol. 98, No. 5, pp. 1291-1293 (1976)
	4AT	Cornicelli, J.A. et al., "15-Lipoxygenase and Its Inhibition: A Novel Therapeutic Target for Vascular Disease", Current Pharmaceutical Design, Vol. 5, No. 1, pp. 11-20 (1999)

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## U.S. PATENT DOCUMENTS

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	5AA	5,760,246	6/2/98	Biller et al.			
	5AB	5,770,615	6/23/98	Cheng et al.			
	5AC	5,776,983	7/7/98	Washburn et al.			
	5AD	5,827,875	10/27/98	Dickson, Jr. et al.			
	5AE	5,885,983	3/23/99	Biller et al.			
	5AF	5,962,440	10/5/99	Sulsky			
	5AG	6,043,265	3/28/00	Murugesan et al.			
	5AH	6,184,231	2/6/01	Hewawasam et al.			
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

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	5AM	WO 97/12613	4/10/97	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	5AN	WO 97/12615	4/10/97	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	5AO	WO 97/21993	6/19/97	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	5AP	WO 99/00353	1/7/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	5AQ	WO 99/38501	8/5/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	5AR	Couladouros, E.A. et al., "A general synthetic route towards bastadins. Part 1: Synthesis of the eastern part of bastadins 4-16", Tetrahedron Letters, Vol. 40, pp. 7023-7026 (1999)
	5AS	Dibbo, A. et al., "The Synthesis of Thyroxine and Related Compounds. Part XVII. The Preparation of Some Additional Compounds related to Thyroxine", J. Chem. Soc., pp. 2890-2902 (1961)
	5AT	Driver, M.S. et al., "A Second-Generation Catalyst for Aryl Halide Amination: Mixed Secondary Amines from Aryl Halides and Primary Amines Catalyzed by (DPPF)PdCl <sub>2</sub> ", J. Am. Chem. Soc., Vol. 118, No. 30, pp. 7217-7218 (1996)

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		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLAS S	TRANSLATION	
							YES	NO
	6AA	WO 99/46272	9/16/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AB	WO 99/61431	12/2/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AC	WO 99/67278	12/29/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AD	WO 99/67279	12/29/99	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AE	WO 00/01389	1/13/00	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AF	WO 01/60784	8/23/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AG	WO 01/70687	9/27/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AH	WO 01/72692	10/4/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	6AJ	WO 01/90053	11/29/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AK	WO 01/94293	12/13/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AL	WO 02/051805	7/4/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AM	WO 02/062780	8/15/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AN	WO 02/090344	11/14/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AO	WO 02/094319	11/28/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	6AP	WO 2004/018421	3/4/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

7AA	Edwards, J.P. et al., "Nonsteroidal Androgen Receptor Agonists Based on 4-(trifluoromethyl)-2H-pyrano[3,2-g]quinolin-2-one", Bioorganic & Medicinal Chemistry Letters, Vol. 9, pp. 1003-1008 (1999)
7AB	Evans, D.A. et al., "Synthesis of Diaryl Ethers through the Copper-Promoted Arylation of Phenols with Arylboronic Acids. An Expedient Synthesis of Thyroxine", Tetrahedron Letters, Vol. 39, pp. 2937-2940 (1998)
7AC	Frost, C.G. et al., "Recent developments in aromatic heteroatom coupling reactions", J. Chem. Soc., Perkin Trans. 1, pp. 2615-2623 (1998)
7AD	Ghiselli, G., "The Pharmacological Profile of FCE 27677: A Novel ACAT Inhibitor with Potent Hypolipidemic Activity Mediated by Selective Suppression of the Hepatic Secretion of ApoB-100-Containing Lipoprotein", Cardiovascular Drug Reviews, Vol. 16, No. 1, pp. 16-30 (1998)
7AE	Greene, T.W. et al., Protective Groups in Organic Synthesis, Third Edition, John Wiley & Sons, Inc., publ. (1999) (table of contents)
7AF	Guo, Z.-W. et al., "Enzymatic Oxidative Phenolic Coupling", J. Org. Chem., Vol. 62, No. 20, pp. 6700-6701 (1997)
7AG	Hamann, L.G. et al., "Discovery of a Potent, Orally Active, Nonsteroidal Androgen Receptor Agonist: 4-Ethyl-1,2,3,4-tetrahydro-6-(trifluoromethyl)-8-pyridono[5,6-g]-quinoline (LG121071)", J. Med. Chem., Vol. 42, No. 2, pp. 210-212 (1999)
7AH	Hara, S., "Ileal Na <sup>+</sup> /bile acid cotransporter inhibitors", Drugs of the Future, Vol. 24, No. 4, pp. 425-430 (1999)
7AI	Harrington, C.R., "Synthesis of a Sulphur-containing Analogue of Thyroxine", Biochem. J., Vol. 43, pp. 434-437 (1948)
7AJ	Hickey, D.M.B. et al., "Synthesis of Thyroid Hormone Analogues. Part 2. Oxidative Coupling Approach to SK&F L-94901", J. Chem. Soc. Perkin Trans. I, pp. 3097-3102 (1988)
7AK	Hickey, D.M.B. et al., "Synthesis of Thyroid Hormone Analogues. Part 3. Iodonium Salt Approaches to SK&F L-94901", J. Chem. Soc. Perkin Trans. I, pp. 3103-3111 (1988)
7AL	Hongu, M. et al., "Na <sup>+</sup> -Glucose Cotransporter Inhibitors as Antidiabetic Agents. II. Synthesis and Structure-Activity Relationships of 4'-Dehydroxyphlorizin Derivatives", Chem. Pharm. Bull., Vol. 46, No. 1, pp. 22-33 (1998)
7AM	Hongu, M. et al., "Na <sup>+</sup> -Glucose Cotransporter Inhibitors as Antidiabetic Agents. III. Synthesis and Pharmacological Properties of 4'-Dehydroxyphlorizin Derivatives Modified at the OH Groups of the Glucose Moiety", Chem. Pharm. Bull., Vol. 46, No. 10, pp. 1545-1555 (1998)
7AN	Horner, L. et al., "Die Synthese brücken-analoger Thyroninverbindungen", Chemische Berichte, Vol. 85, pp. 520-530 (1952)

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8AA	Hughes, T.E. et al., "NVP-DPP728: (1-[[[2-[(5-Cyanopyridin-2-yl)amino]ethyl]acetyl]-2-cyano-(S)-pyrrolidine], a Slow-Binding Inhibitor of Dipeptidyl Peptidase IV", <i>Biochemistry</i> , Vol. 38, No. 36, pp. 11597-11603 (1999)
8AB	Jain, G.K. et al., "Punarnavoside: A New Antifibrinolytic Agent from <i>Boerhaavia diffusa</i> Linn", <i>Indian Journal of Chemistry</i> , Vol. 28B, pp. 163-166 (1989)
8AC	Johannsson, G. et al., "Growth Hormone Treatment of Abdominally Obese Men Reduces Abdominal Fat Mass, Improves Glucose and Lipoprotein Metabolism, and Reduces Diastolic Blood Pressure", <i>Journal of Clinical Endocrinology and Metabolism</i> , Vol. 82, No. 3, pp. 727-734 (1997)
8AD	Jones, R.M. et al., "A Mild Anionic Method for Generating <i>o</i> -Quinone Methides: Facile Preparations of <i>Ortho</i> -Functionalized Phenols", <i>J. Org. Chem.</i> Vol. 66, No. 10, pp. 3435-3441 (2001)
8AE	Kalinin, A.V. et al., "The Directed <i>Ortho</i> Metalation-Ullmann Connection. A New Cu(I)-Catalyzed Variant for the Synthesis of Substituted Diaryl Ethers", <i>J. Org. Chem.</i> Vol. 64, No. 9, pp. 2986-2987 (1999)
8AF	Kämmerer, H. et al., "Versuche zur Umsetzung von Methylendiphenolen mit Glucosederivaten und zur Kondensation von <i>O</i> -Phenylglucosidderivaten", <i>Makromol. Chem.</i> , Vol. 182, pp. 1351-1361 (1981)
8AG	Krause, B.R. et al., Chapter 6: "ACAT Inhibitors: Physiologic Mechanisms for Hypolipidemic and Anti-Atherosclerotic Activities in Experimental Animals", <i>Inflammation: Mediators Pathways</i> , CRC Press Inc., publ., Ruffolo, Jr., R.R. et al., eds., pp. 173-198 (1995)
8AH	Leeson, P.D. et al., "Synthesis of Thyroid Hormone Analogues. Part 1. Preparation of 3'-Heteroaryl-methyl-3,5-di-iodo-L-thyronines via Phenol-Dinitrophenol Condensation and Relationships between Structure and Selective Thyromimetic Activity", <i>J. Chem. Soc. Perkin Trans. I</i> , pp. 3085-3096 (1988)
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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

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